



# HSV-2 SWIFT

---



## Capabilities Overview



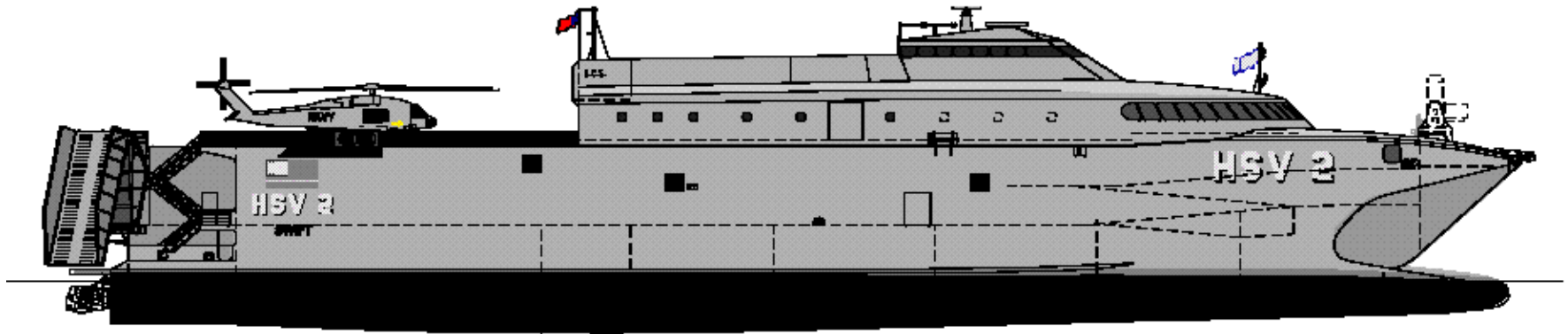
# SWIFT Snapshot





# SWIFT Overview

---

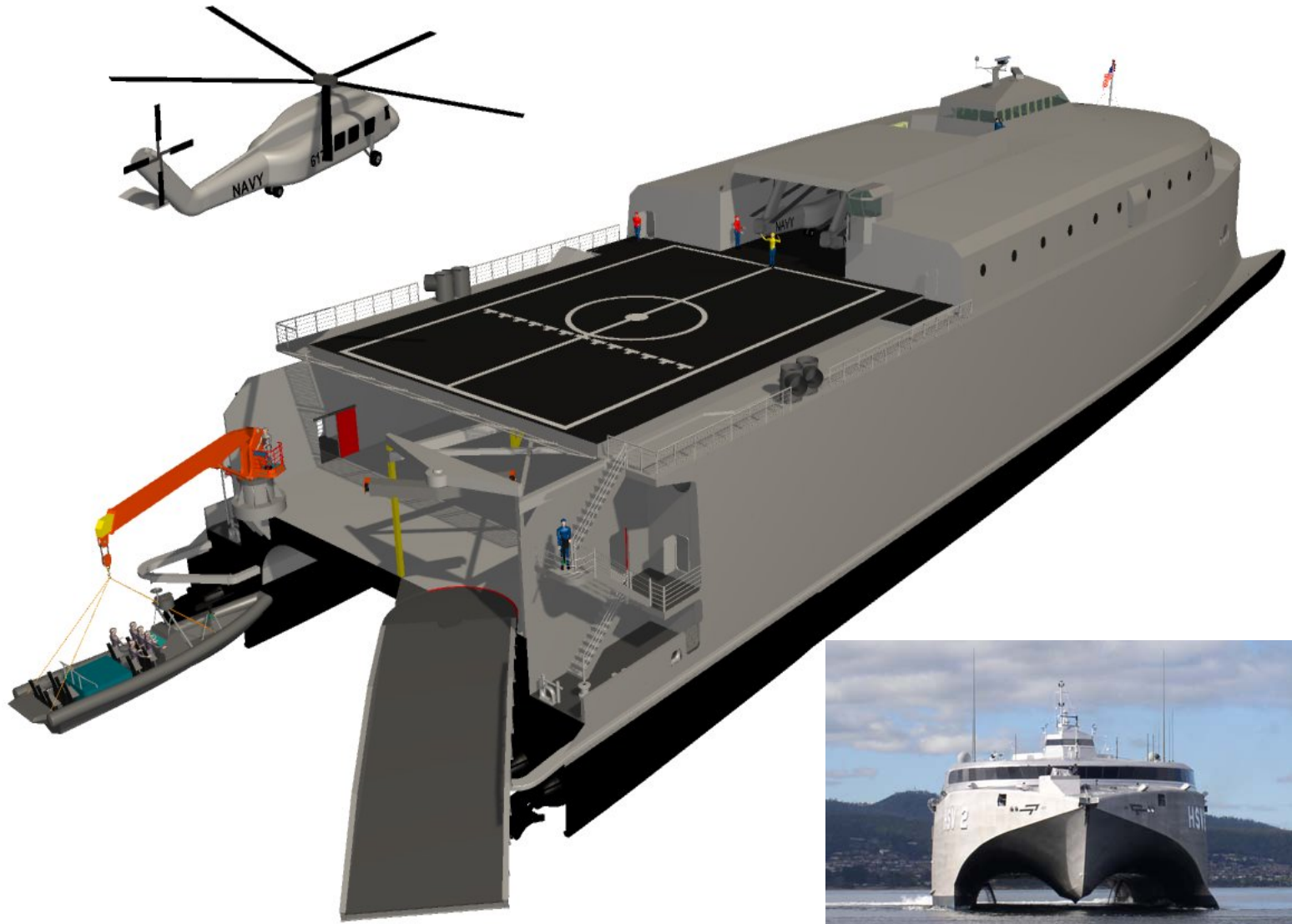


- **98-m (321') Wave Piercing Catamaran**
- **Delivered to Navy 15 Aug 03**
- **Crewed by US Navy (CO – Cdr, crew of approx. 40)**
- **Speed: Max – 48 knots, Operating – 38 knots**
- **Payload Capacity – 680 st (depending on speed, range, sea state, etc)**
- **Draft – 3.4-m (11' 3") at Full Displacement**
- **Range – 4000 NM - light loaded**





# SWIFT Overview





# Vehicle Deck

---

- 22,760 sqft Vehicle Deck
  - 14,070 sqft with at least 15'4" clearance
  - 8690 sqft with 6' 9" clearance
- Integrated storage areas located in forward area of vehicle deck
  - Seabags, Packs, Unit Equipment
- Capability to refuel Diesel powered vehicles on Vehicle Deck



# Ramp

---

- 70 ton, slewing stern ramp
  - M1A1 tank capable
  - 51 ft. long, 15.5 ft. clear width
- Able to load from directly astern to 40 degrees to starboard
- Separate ramp dedicated to embarking passengers located starboard side forward



# Cargo Handling

---

- Organic 13 ton slewing telescoping boom crane located port side aft (load compensating)
- Crane supports movement of cargo/equip between pier, vehicle deck and flight deck
  - SWIFT must be port side to pier to conduct pier-to-ship crane ops
- Organic MHE – (2) 11K, (1) 5K forklifts
- No container handling system
  - Container capability being researched for retrofit

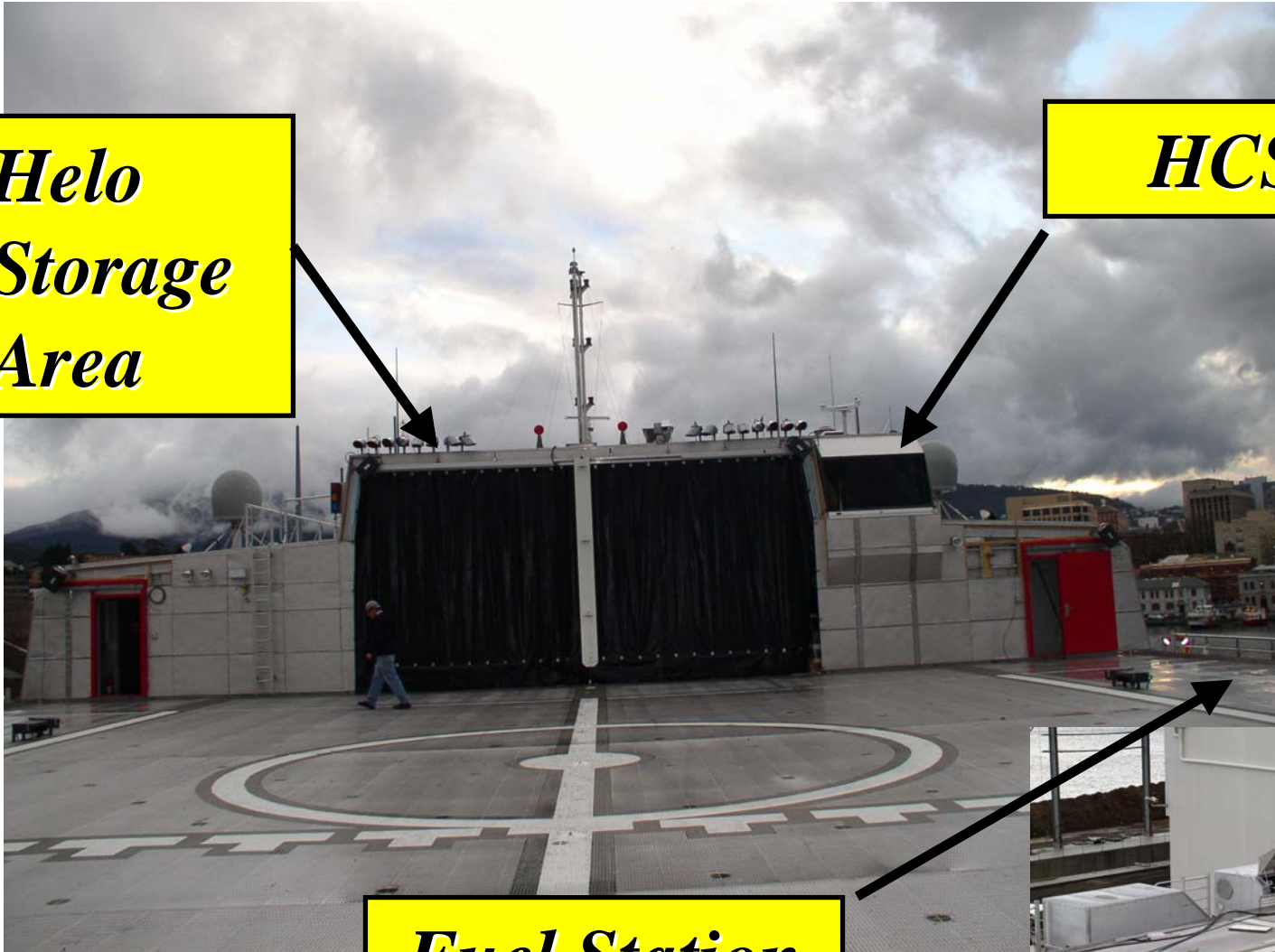


# Flight Operations

*Helo  
Storage  
Area*

*HCS*

*Fuel Station*







# Flight Operations

---

- Single Spot – 81' x 50'
- Aviation Facilities
  - Dedicated Helo Control Station (HCS)
  - Storage area for (2) MH-60s (w/CSTARS)
- Certified for CH-46, MH/CH/SH-60, UH/AH-1
  - Pending Dynamic Interface Testing (C5F)
- Current Capability -- Day VFR, Level III, Class 2
  - Upgrade to Night IFR, Level 1, Class II planned
  - Support: WMS, IFF, Beacon (TACAN/SGSI installed DEC 03)
- Comms: HF, UHF, VHF



# Helo Storage Area

---





# Flight Operations

---

- Refueling Capability: 20,000 gal (132,000 pounds) JP-5
- Maintenance Capability – Level 2
  - Nitrogen available
  - 400 Hz / 28Vdc Power Supply in Hangar
- Crane allows movement of cargo to Flight Deck – 15,000 lb capacity



# Boat/UUV Operations

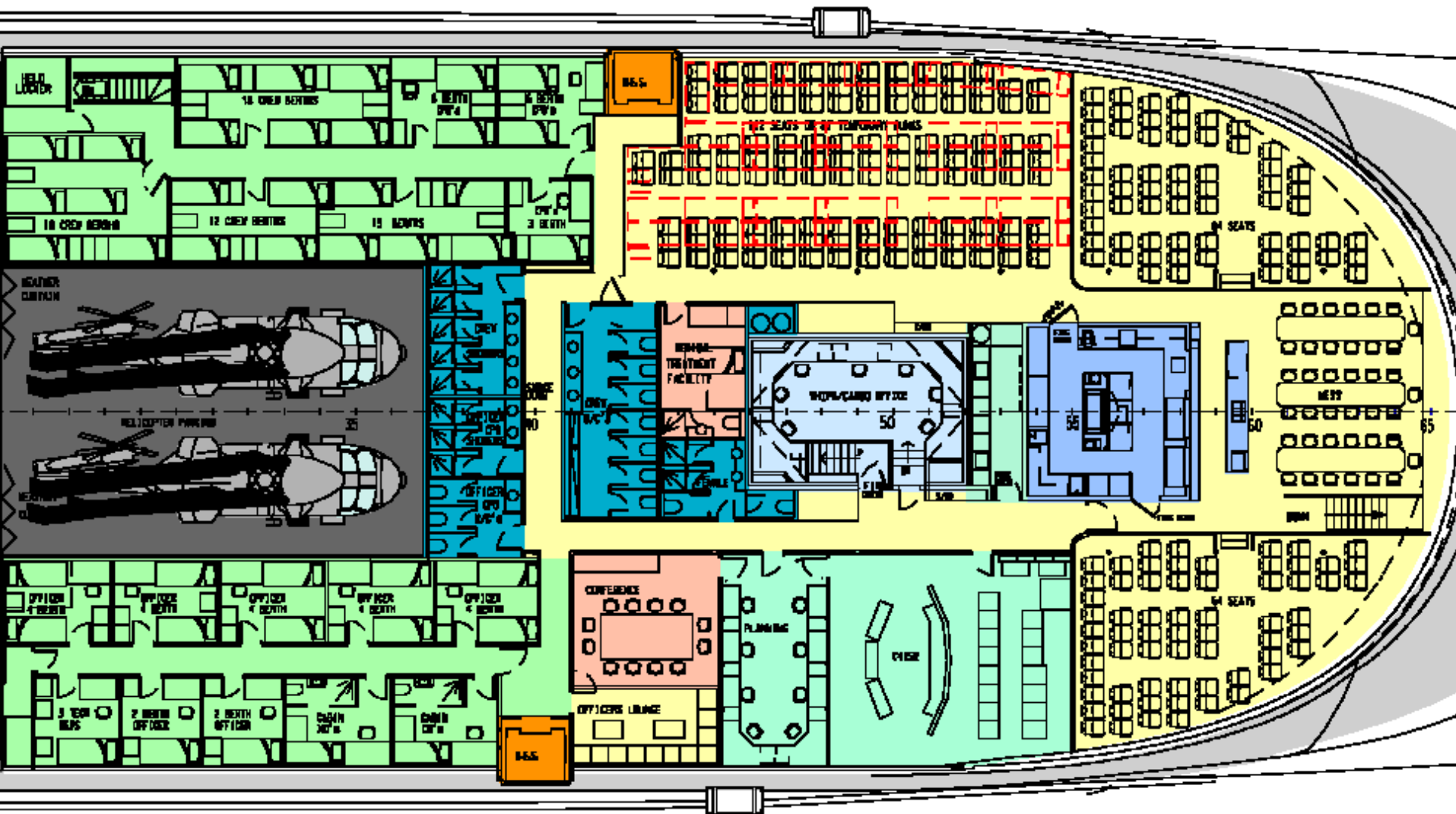
---

- 13 ton slewing telescoping boom crane located port side aft
- Crane is primary method to launch and recover boats up to 11 meters
  - Lift 26,500lb 11M RHIB @ 44' beam length (centerline)
- Limited MOGAS storage
  - (2) 55gal drums (44gal MOGAS ea.), (6) 6 gal containers
  - Total Quantity – 124 gallons





# Passenger Deck





# Berthing

---

- Permanent Berthing for 103 pax (40 assigned to crew, 3 to tech reps)
- Modular Berthing: 80 racks
  - Temporary racks replace 122 seats
  - Configuration of modular area requires advance planning; requires removal of seats to install temporary racks
  - Temp racks include one locker per rack
- Heads and Showers



# Seating

---

- Reclining Business Class Airline style
  - Permanent Seats: 128
  - Temporary Seats: 122 (replaces 80 racks)
- Seating area equipped with AV system to show VHS, DVDs
- Rifle Racks located on bulkhead adjacent to seating area
- Storage areas located in vehicle deck for packs, seabags, unit equipment



# Seating

---







# Galley

---

- Designed to feed 100 pax A-rations for 10 days
- Capability to feed 250 pax for extended periods using UGRs
  - Embarking unit responsible for bringing UGRs
- Mess area seats 39
- Water Capability
  - (2) ROWPUs; each produces 3000 g/d
  - (1) 3500 gal storage tank

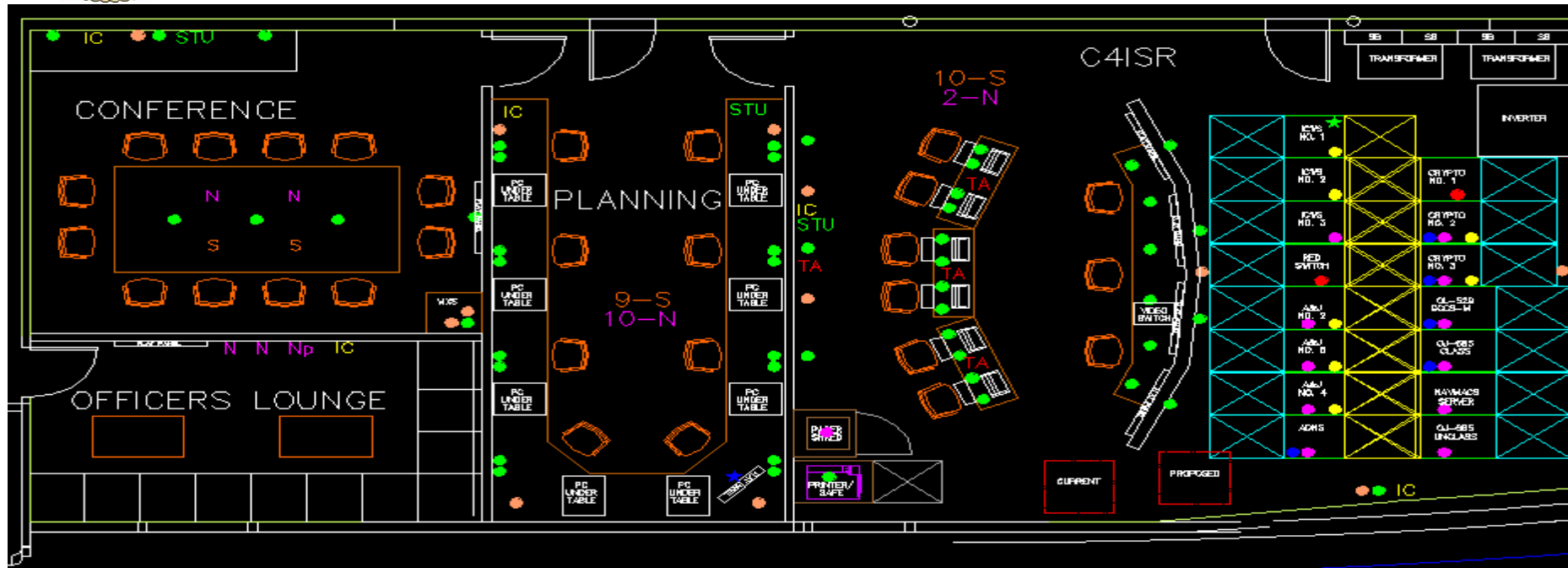


# Messing





# C4I Capabilities



- Secure 700 sqft C4I space
- Planning space for Embarked force
  - 12 seat conference table w/ LAN and Power connections
  - Planning Office with 8 work stations (16 computers)





# C4I Spaces

## Planning Space



CIC





# C4I Connectivity

---

- UHF SATCOM (3 Transceivers, DAMA)
- UHF LOS (4 x PRC-117)
- HF (2 Transceivers, 1 Additional Receiver)
- VHF (2 x PRC-117)
- Dual INMARSAT B – 96 kbps throughput
  - SIPR/NIPR net – shipboard LAN (64 kbps)
  - POTS/INMARSAT Phone system (32 kbps)



# C4I Systems

---

- ISNS (Shipboard LANs)
  - SIPRNET (48 port switch)
  - NIPRNET (64 port switch)
- Naval Messaging
  - CUDIXS
  - Fleet Broadcast
  - Fleet Messaging over SIPRNET
- Battle Force E-Mail
- All Digital Red and Black Switches



# Misc. Issues

---

- Seabasing Support Capability
  - (3) 750mm Firestone Heavy Duty Fenders w/tie down points along starboard sponson
  - RRDF/Causeway Marriage
  - Skin-to-Skin marriage with MPF
  - Requires use of fenders
- Maritime Dynamics Active Ride Control
  - Retractable t-foil w/ active trim tabs forward
- Medical Space
  - Operating table and refrigerator for meds
  - Separate head w/ shower, basin and toilet
  - Crew includes Independent Duty Corpsman (IDC)



# Misc. Issues

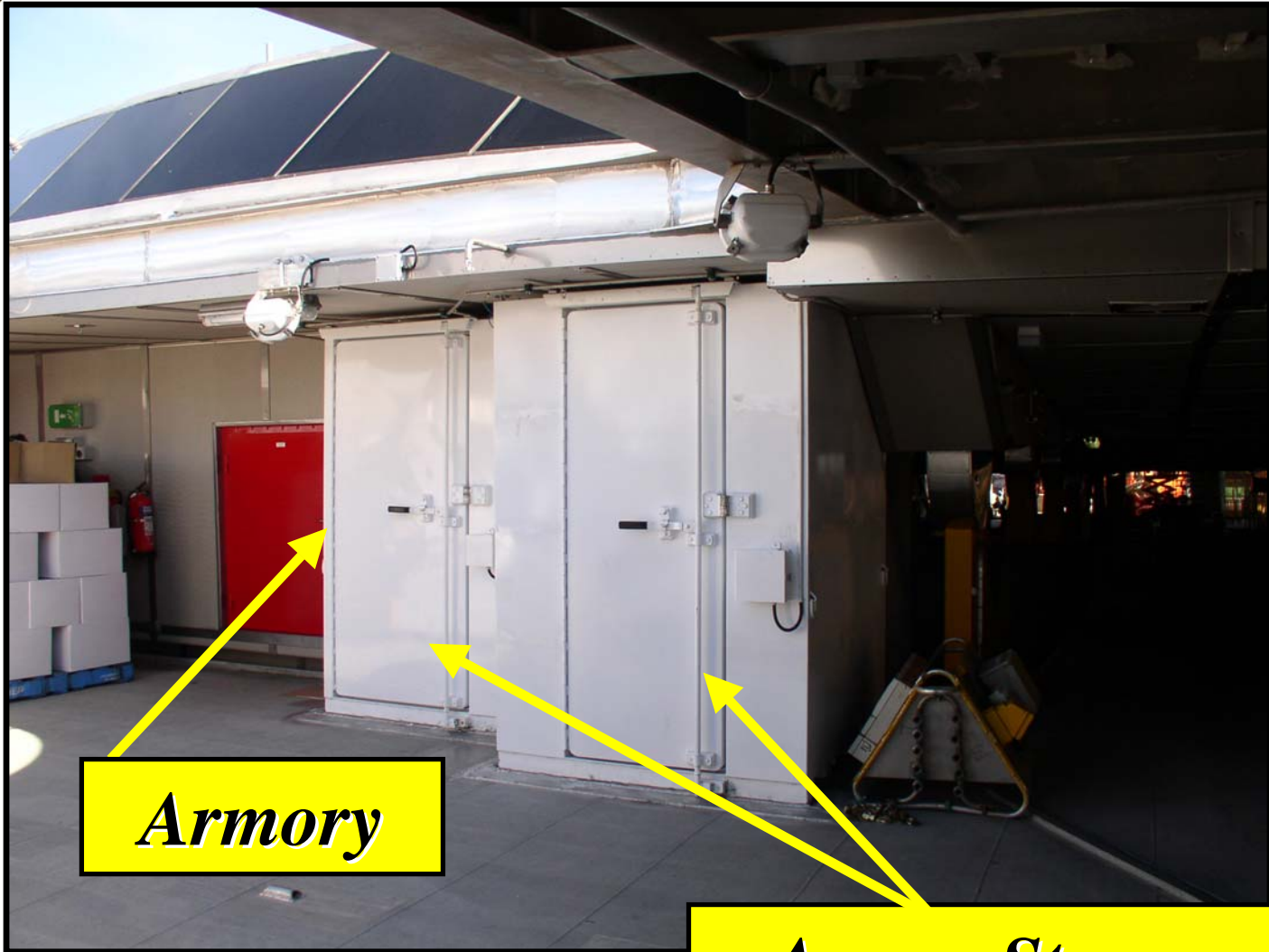
---

- Ammunition Storage
  - Ship's Magazine: 180 cuft. For 1.1 and 1.4
  - Embarked Unit: 65 cuft for 1.1 and 1.4
- Armory
  - Rifles stored in racks in seating/berthing area
  - Limited Armory for crew served weapons
- Navigation System
  - Transas Navi-Sailor 3000 system.
  - Primary and back-up computers running independent software – w/ DGPS, speed log, and gyro inputs
  - (2) 21 inch Navigation displays
  - ECDIS and ARPA





# Armory & Magazines



*Armory*

*Ammo Storage*



# Misc. Issues

---

- Ship's Self-defense, FP/AT
  - (4) twin M2 .50 mounts, 2 each port and starboard
  - (1) Mk 96 25mm mounted on bow
  - (1) Mk-45 Remote Control Gun (Mk 19, 50 cal or M240 capable mount)
  - (2) MK 19 40mm



# Weapons Systems



**MK-96 25mm Stabilized Gun –  
Starboard Bow, 3000 Lbs**



**Mk-45 w/ 50 cal Installed – Port  
Side Aft**